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TOP SECRET CHESS RUFF

MISSION 1014-2. 24-27 NOVEMBER 1964

TCS-10617/64
NPIC/R-5085/64

DECLASS REVIEW BY NIMA / DoD

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OAK MISSION 1014-2

PREFACE

THIS IS THE FIRST AND ONLY OAK REPORT ON MISSION 1014-2 AND PROVIDES INFORMATION ON THOSE COMMITTEE ON OVERHEAD RECONNAISSANCE (COMOR) TARGETS OBSERVED ON THE PHOTOGRAPHY. COMOR TARGETS OBSERVED ON MISSION 1014-2 ARE LISTED IN THE INDEX OF THIS REPORT.

TARGETS ARE ARRANGED IN THE OAK BY SUBJECT AND WITHIN EACH SUBJECT BY COMOR TARGET NUMBER. TARGETS OF OPPORTUNITY OBSERVED DURING THE OAK REPORTING PERIOD ARE LISTED NUMERICALLY UNDER THE APPROPRIATE SUBJECT AFTER THE LISTING OF COMOR TARGETS. LOCATIONS OF TARGETS IN THIS REPORT ARE INDICATED BY THE COUNTRY CODE PRECEDING THE COORDINATES.

SELECTED PHOTOGRAPHIC REFERENCES FOR EACH TARGET OBSERVED AND REPORTED FOLLOW THE DESCRIPTION OF THE TARGET. PASS NUMBERS ARE SUFFIXED WITH EITHER AN A FOR ASCENDING (SOUTH-TO-NORTH) OR D FOR DESCENDING (NORTH-TO-SOUTH). FRAMES ARE INDICATED BY THE LETTERS FR. THE LETTER F PRECEDING FRAME NUMBERS INDICATES THE FORWARD CAMERA, AND THE LETTER A INDICATES THE AFT CAMERA. UNIVERSAL REFERENCE GRID (X-Y) COORDINATES ARE GIVEN IN PARENTHESIS AFTER THE FRAME TO WHICH THEY APPLY. THIS GRID IS IDENTIFIED AS UNIVERSAL GRID NO 1, FEB 64. SYMBOLS INDICATING CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON THE PHOTOGRAPHY ARE AS FOLLOWS -- C (CLEAR), H (HAZE), CS (CLOUD SHADOW), HC (HEAVY CLOUD COVER), SC (SCATTERED CLOUD COVER), SD (SEMI DARKNESS), O (OBLIQUITY), S (SNOW), PQ (POOR IMAGE QUALITY).

OAK RECIPIENTS ARE CAUTIONED THAT THE INITIAL SCAN OF THE PHOTOGRAPHY IS BEING ACCOMPLISHED IN A SHORT TIME AND PRIOR TO FINAL REFINEMENT OF EPHEMERAL DATA, CONSEQUENTLY, FUTURE DETAILED ANALYSIS MAY RESULT IN MINOR ALTERATIONS.

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Highlights

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HIGHLIGHTS

1. ICBM COMPLEXES

COVERAGE OF THE 24 KNOWN DEPLOYED ICBM COMPLEXES AND TYURATAM MISSILE TEST CENTER BY MISSION 1014-2 IS AS FOLLOWS --

GLADKAYA, OLOVYANNAYA, UZHUR AND YOSHKAR OLA ARE COVERED BY CLOUD-FREE PHOTOGRAPHY, HOWEVER, A LOW SUN ANGLE AND GROUND SNOW COVER DETRACTS FROM THE PHOTOGRAPHIC DETAIL.

ITATKA, SHADRINSK, AND THE COMPLEX SUPPORT FACILITY, DROVYANAYA ARE IDENTIFICATION ONLY.

ALL OTHER DEPLOYED COMPLEXES AND TYURATAM MTC ARE EITHER CLOUD COVERED OR NOT COVERED.

2. GLADKAYA ICBM COMPLEX [REDACTED]

LAUNCH AREA D IS NOW COMPLETE. LAUNCH AREA E IS CONSIDERED ABANDONED AND IS DROPPED FROM THE ORDER OF BATTLE.

3. AMM/SAM ACTIVITY

THE SUSPECT AMM/SAM ACTIVITIES AT CHEREPOVETS WERE NOT OBSERVED BECAUSE OF CLOUD COVER AND DARKNESS. THE ACTIVITIES AT MOSCOW, OLENEGORSK, TALLINN, ANGARSK AND LENINGRAD WERE NOT COVERED.

4. HAMMAGUIR MISSILE TEST CENTER [REDACTED]

THE CENTER IS COVERED BY CLEAR, STEREO PHOTOGRAPHY. LAUNCH AREAS A AND B, AND THE POSSIBLE LAUNCH AREA, APPEAR INACTIVE.

5. COLOMB-BECHAR MISSILE TEST CENTER [REDACTED]

THE TEST CENTER IS SEEN FOR THE FIRST TIME ON GOOD QUALITY, STEREO, KEYHOLE PHOTOGRAPHY. IT CONTAINS A BASE SUPPORT AREA, AN ELECTRONIC FACILITY, AN AIRFIELD, (LEGER AIRFIELD) AND SEVERAL UNIDENTIFIED SECURED AREAS.

6. LAN-CHOU SAM SITE (MISSILE BONUS)

COMPLETED SA-2 SAM SITE LOCATED 17 NM SSW OF LAN-CHOU AT 035-47N 103-44E.

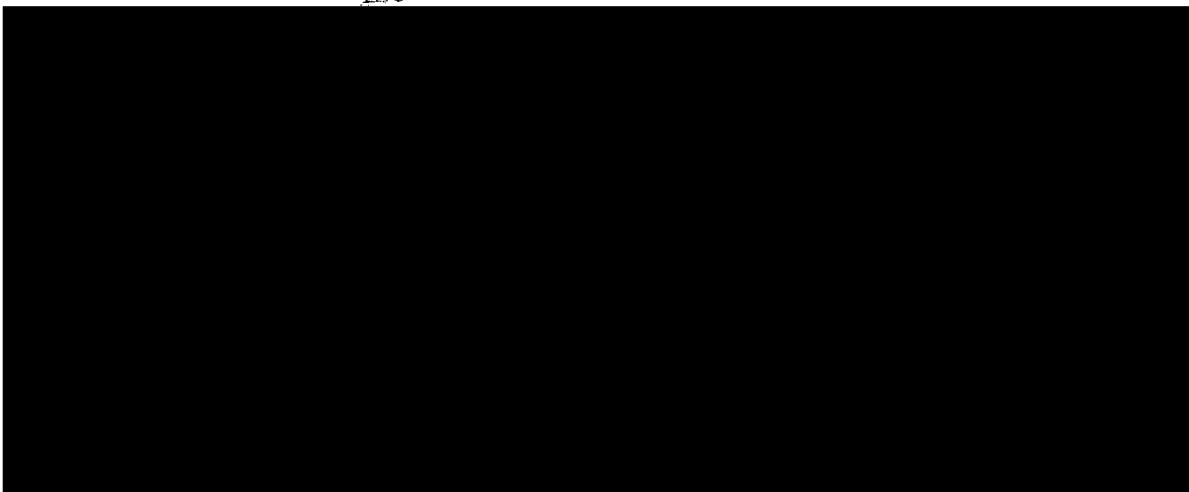
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STATUS OF COMOR TARGET READOUT

FORTY-SIX TARGETS WERE OBSERVED IN THE OAK REPORTING PERIOD AND ARE COVERED IN THIS OAK AND ARE LISTED IN THE INDEX AT THE CONCLUSION OF THIS REPORT.

TABULAR SUMMARY

A RECAPITULATION OF SIGNIFICANT ACTIVITY IS PRESENTED IN THE FOLLOWING TABLES ON SUCCEEDING PAGES --

TABLE 1 -- SOVIET ICBM DEPLOYMENT
TABLE 2 -- SOVIET MRBM AND IRBM DEPLOYMENT
TABLE 3 -- SAM AND AMM DEPLOYMENT

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TABLE 5 -- AIRCRAFT ACTIVITY
TABLE 6 -- SUBMARINE ACTIVITY
TABLE 7 -- DATE AND TIME OF PHOTOGRAPHIC PASSES

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Table 1. Soviet ICBM Deployment

Complex	Launch Area																Total Soft Sites	Total Hard Sites	Total Launch Positions	
	A	B	C	D	E	F	G	H	I	J	K	L	M	N						
Altyshk	M	M	M	M	M	M											6	6		
Dombrovskiy	M	M	M	M	M	E											5	5		
Dvoryanaya	C	C	C	C	C	C											3	3		
Gladkaya	(C)	(C)		(C)													2	1		
Imeni Gagarina	M	M	M	M	M												5	5		
Iutka	(C)	(C)	(C)														3			
Kartaly	E	M	E														3	6		
Kosmoma	C	C	C	C	C	C	C	M									3 (11)	3 (11)		
Kozelsk	C	C		C	C	C											3	2		
Novosibirsk	C	C	L	C	C												3	2		
Oboyanaya	(C)	(L)	(L)	(M)													9	15		
Ozsk	C																1	3		
Penn	C	C	C	C	C	L											5	1		
Pleinsk	C	C	C	C	C	C	E	F									10	1		
Shadrinsk	(C)	(C)	(L)														4	9		
Sybolovsk	C	C	C	C	C	C	C	C									7	1		
Tsykovo	C	C	C	C	C	C											6			
Tymon	C																2			
Uzhor	(M)	(M)	(M)	(M)	(M)	(M)											6	6		
Vozhayskaya Sloba	C	C	C	C	C	C	C	C	C								7	2		
Vozhaysk	C	C	C	C	C	C	C	C	C								6	2		
Vozhaysk-Old	(C)	(C)	(C)	(C)	(C)	(C)											6			
Vozhaysk	C	C	C	C	C	C	C	C	C	C	C	C	C	C			8	3		
Zhangzi Tiao	M	M	M	M	M												5	5		
Construction Status (C=Complete, L=Late, M=Mid, E=Early)																		Deployment Total		
Tyuratinsk MIC	C	C	C	C	C	C	L	C	M	M	M						10	9		
Grand Total																		87	72 (11)	302 (11)

☐ Newly identified
☐ Covered by current mission

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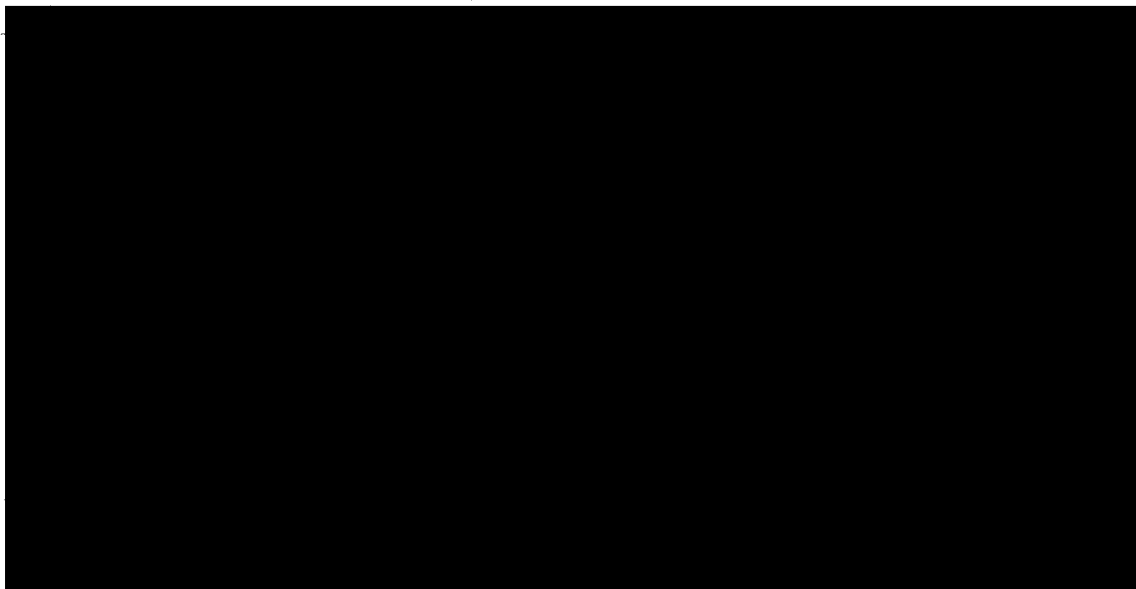
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Table 2. Soviet MRBM and IRBM Deployment

Geographic Area	Soft MRBM Launch Areas	Soft IRBM Launch Areas	Hard MRBM Launch Areas	Hard IRBM Launch Areas	Total Launch Areas	Total Launch Positions
Western	121	11	18	11	161	633
Caucasus	3		2	3	5	29
Central Asia	2	4	1	4	11	40
Far Eastern	11	1		2	14	54
Totals	137	16	21	20	194	756

Totals do not include 69 fixed field-type sites with total of 251 clearings and one launch facility at Sovetskaya Gavan.

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Missiles

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MISSILES

[REDACTED] YOSHKAR-OLA ICBM COMPLEX UR 5634N 04803E

25X1D

THE ENTIRE COMPLEX IS COVERED BY FAIR QUALITY STEREO PHOTOGRAPHY. NO SIGNIFICANT CHANGES SINCE [REDACTED] OBSERVED AT THE COMPLEX SUPPORT FACILITY, RAIL-TO-ROAD TRANSFER POINT, COMMUNICATIONS SITE, AND LAUNCH AREAS A (SITE 1), B (SITE 2), C (SITE 3), D (SITE 4), E (SITE 5), F (SITE 6).

25X1D

A NEW POSSIBLE HF COMMUNICATIONS FACILITY [REDACTED]

25X1D

[REDACTED] IS OBSERVED IMMEDIATELY SOUTH OF THE SUPPORT-TYPE FACILITY BETWEEN LAUNCH AREAS C AND D. THIS INSTALLATION CONSISTS OF 4 SMALL BUILDINGS AND TWO POLES, POSSIBLY A DIPOLE ANTENNA.

NO ABM ACTIVITY OBSERVED WITHIN A 50-NM RADIUS OF COMPLEX.

25X1D

25X1A

[REDACTED] DROVYANAYA ICBM COMPLEX UR 5132N 11301E

COMPLEX SUPPORT FACILITY -- IDENTIFICATION ONLY.

REMAINDER OF COMPLEX NOT COVERED.

25X1D

25X1A

[REDACTED] ITATKA ICBM COMPLEX UR 5650N 08536E

IDENTIFICATION ONLY.

NO ABM ACTIVITY OBSERVED WITHIN A 50-NM RADIUS OF COMPLEX.

25X1D

25X1A

[REDACTED] SHADRINSK ICBM COMPLEX UR 5608N 06340E

IDENTIFICATION ONLY. NO ABM ACTIVITY OBSERVED WITHIN THE NORTHERN TWO-THIRDS OF THE 50-NM RADIUS SEARCH AREA. SOUTHERN ONE-THIRD OF AREA NOT

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COVERED BY PHOTOGRAPHY.

25X1D

25X1A

TYUMEN ICBM COMPLEX UR 5652N 06553E

UNIDENTIFIED AREA NORTH OF COMPLEX SUPPORT FACILITY -- IDENTIFICATION ONLY. REMAINDER OF THE COMPLEX NOT COVERED.

NO ABM ACTIVITY OBSERVED IN EASTERN HALF OF 50-NM RADIUS SEARCH AREA. WESTERN HALF NOT COVERED.

25X1D

25X1A

GLADKAYA ICBM COMPLEX UR 5605N 09213E

THE ENTIRE COMPLEX IS COVERED BY FAIR-QUALITY CLOUD-FREE STEREO PHOTOGRAPHY. LAUNCH AREA D (SITE 5) IS NOW COMPLETE. A T-SHAPED SCAR IN THE WOODS IMMEDIATELY NORTH OF THE SITE, FIRST VISIBLE ON

25X1D

25X1D

25X1D

25X1D

SHOWS NO APPARENT CHANGE. LAUNCH AREA E (SITE 6) SHOWS NO SIGNIFICANT CHANGE SINCE AND IS CONSIDERED ABANDONED. NO SIGNIFICANT CHANGES AT THE COMPLEX SUPPORT FACILITY, RAIL-TO-ROAD TRANSFER POINT OR LAUNCH AREA A (SITE 3) SINCE OR LAUNCH AREA B (SITE 2) SINCE

NO ABM ACTIVITY OBSERVED WITHIN A 50-NM RADIUS.

25X1D

25X1A

UZHUR ICBM COMPLEX UR 5517N 08949E

THE UZHUR COMPLEX IS COVERED BY FAIR QUALITY PHOTOGRAPHY WITH SNOW COVER AND LOW SUN ANGLE. CONSTRUCTION CONTINUES ON THE COMPLEX SUPPORT FACILITY WHICH IS LOCATED JUST SOUTH OF UZHUR. AN EXISTING RAIL SPUR HAS BEEN EXTENDED TO

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THE SOUTH AND WEST. NUMEROUS BUILDINGS ARE UNDER CONSTRUCTION AND OPEN DITCHING REMAINS. CONSTRUCTION CONTINUES ON THE RAIL-TO-ROAD TRANSFER POINT. THE RAIL SPUR HAS BEEN EXTENDED AND BUILDINGS OR STRUCTURES HAVE BEEN CONSTRUCTED AT 3 POINTS ALONG THE RAIL SPUR SINCE [REDACTED]

25X1D

LAUNCH AREA A (SITE 1), IN MID-STAGE OF CONSTRUCTION, IS LOCATED ABOUT 4.3 NM NW OF THE COMPLEX SUPPORT FACILITY. PARTIAL FENCING CAN BE OBSERVED IN THE VICINITY OF THE SILO EXCAVATION. CONSTRUCTION ACTIVITY CONTINUES IN THE AREA OF BUILDING ACTIVITY 2,700 FEET WEST OF THE SILO WHERE THERE ARE 2 BUILDINGS APPROXIMATELY 140 BY 40 FEET AND SEVERAL SMALLER BUILDINGS OR STRUCTURES. NO OTHER SIGNIFICANT CHANGE SINCE [REDACTED]

25X1D

LAUNCH AREA B (SITE 2), IN MID-STAGE OF CONSTRUCTION, IS LOCATED ABOUT 6.5 NM WEST OF THE COMPLEX SUPPORT FACILITY. NO SIGNIFICANT CHANGE IN CONSTRUCTION AT OR NEAR THE SILO EXCAVATION. CONSTRUCTION CONTINUES IN THE AREA 1,900 FEET WSW OF THE SILO. THIS AREA CONTAINS 3 BUILDINGS APPROXIMATELY 140 BY 40 FEET AND AT LEAST 3 SMALLER BUILDINGS OR STRUCTURES. EARTH IS BEING EXTRACTED FROM A HILLSIDE LOCATED ABOUT 800 FEET SW OF THE SILO. NO OTHER SIGNIFICANT CHANGE OBSERVED SINCE [REDACTED]

25X1D

25X1D

LAUNCH AREA C (SITE 3), IN MID-STAGE OF CONSTRUCTION, IS LOCATED ABOUT 9.3 NM WNW OF THE COMPLEX SUPPORT FACILITY. A VERY SLIM OBJECT, POSSIBLY A CONSTRUCTION DEVICE, PROTRUDES FROM THE SILO CORING. A SMALLER BUILDING HAS BEEN ADDED ADJACENT TO THE TWO 140 BY 40-FOOT BUILDINGS LOCATED ABOUT 3,700 FEET EAST OF THE SILO. NO OTHER SIGNIFICANT CHANGE SINCE [REDACTED]

25X1D

LAUNCH AREA D (SITE 4), IN MID-STAGE OF CONSTRUCTION, IS LOCATED 13 NM WEST OF THE COMPLEX SUPPORT FACILITY. NO SIGNIFICANT CHANGE IN FACILITIES SINCE [REDACTED]

LAUNCH AREA E (SITE 5), IN MID-STAGE OF

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CONSTRUCTION, IS LOCATED ABOUT 10 NM SW OF THE COMPLEX SUPPORT FACILITY. AN UNIDENTIFIED OBJECT OR PIECE OF EQUIPMENT EXTENDS OVER PART OF THE SILO EXCAVATION. NO SIGNIFICANT CHANGE IN FACILITIES IN THE VICINITY OF THE BUILDING ACTIVITY LOCATED ABOUT 3,700 FEET NE OF THE SILO SINCE

25X1D

[REDACTED] THIS AREA IS POSSIBLY SECURED AND CONTAINS TWO BUILDINGS WHICH MEASURE ABOUT 140 BY 40 FEET AND AT LEAST 5 OTHER BUILDINGS OR STRUCTURES.

LAUNCH AREA F (SITE 6), IN MID-STAGE OF CONSTRUCTION, IS LOCATED ABOUT 9.1 NM NW OF THE COMPLEX SUPPORT FACILITY. NO SIGNIFICANT CHANGE IN FACILITIES SINCE [REDACTED]

25X1D

(ATTACHMENT 1)

25X1D

25X1A

[REDACTED]
OLOVYANNAYA ICBM COMPLEX UR 5048N 11550E

ENTIRE COMPLEX IS COVERED BY STEREO PHOTOGRAPHY. WEATHER AND SEMI-DARKNESS PREVENT DETERMINATION OF ANY CHANGE IN CONSTRUCTION STATUS AT LAUNCH AREAS B (SITE 2) AND C (SITE 3). NO APPARENT CHANGE IN COMPLEX SUPPORT FACILITY, RAIL-TO-ROAD TRANSFER POINT, AND LAUNCH AREA A (SITE 1).

LAUNCH GROUP D (SITES 4, 5, 7, 8, 9, 10) -- IDENTIFICATION ONLY.

25X1D

25X1A

[REDACTED]
KOVYLKINO SUSPECT SSM AREA UR 5402N 04356E

NO SSM ACTIVITY OBSERVED IN CLOUD-FREE AREAS WITHIN 50-NM RADIUS OF KOVYLKINO.

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25X1A

[REDACTED] KARA-BABAU IRBM LAUNCH SITE 2 UR 4431N 07758E

IDENTIFICATION ONLY.

25X1D [REDACTED]

25X1A [REDACTED]

[REDACTED] IECAVA MRBM LAUNCH SITE 3 UR 5633N 02420E

25X1D NO APPARENT CHANGE IN FACILITIES SINCE
[REDACTED] CLOUDS, HAZE, CLOUD
SHADOW AND SEMI-DARKNESS PRECLUDE A DETAILED
INTERPRETATION.

25X1D [REDACTED]

25X1A [REDACTED]

[REDACTED] POSTAVY MRBM LAUNCH SITE 2 UR 5506N 02700E

25X1D NO APPARENT CHANGE IN FACILITIES SINCE
[REDACTED] CLOUDS, HAZE, CLOUD SHADOW
AND SEMI-DARKNESS PRECLUDE A DETAILED INTERPRETATION.

25X1D [REDACTED]

25X1A [REDACTED]

[REDACTED] SARY-SHAGAN ANTIMISSILE TEST CENTER UR 4602N 07334E

25X1D ONLY THE EASTERN SECTION OF THE CENTER COVERED
BY PHOTOGRAPHY. THE HEN HOUSE ANTENNA AND MAIN
HOUSING AREA ARE THE ONLY FACILITIES DISCERNIBLE
AND THERE IS NO CHANGE APPARENT AT EITHER SINCE
[REDACTED] THE REMAINDER OF THE
FACILITIES AT THE TEST CENTER ARE NOT COVERED OR
CLOUD COVERED.

25X1D [REDACTED]

25X1A [REDACTED]

[REDACTED] EMBA MISSILE-ASSOCIATED INSTALLATION UR 4835N 05804E

THE ENTIRE INSTALLATION IS COVERED BY
RELATIVELY CLEAR PHOTOGRAPHY. THE ONLY
FACILITY SHOWING APPARENT CHANGE SINCE

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[REDACTED] IS THE AREA JUST
NORTHWEST OF THE OPERATIONAL SUPPORT AREA
WHERE CONSTRUCTION IS CONTINUING. EIGHT
FOUNDATIONS OR BUILDINGS UNDER CONSTRUCTION HAVE
BEEN ADDED ALONG THE OPEN DITCHES OBSERVED
ON [REDACTED] A CONTINUATION OF
ONE OF THESE DITCHES TERMINATES AT A SMALL
UNIDENTIFIED FACILITY UNDER CONSTRUCTION
APPROXIMATELY 4,000 FEET SSE OF THE SOUTHERN
END OF THE AIRFIELD. INITIAL CONSTRUCTION
ON THIS SMALL UNIDENTIFIED FACILITY BEGAN ABOUT
THE SAME TIME AS THE NEW CONSTRUCTION NORTHWEST
OF THE OPERATIONAL SUPPORT AREA (PRIOR TO

25X1D

[REDACTED]
AT LEAST 6 LARGE STRAIGHT-WING AIRCRAFT ARE
PARKED AT EMBA AIRFIELD.

25X1D

25X1A

[REDACTED]
MENOUARAR MISSILE TEST RANGE AG 3110N 00216W

SEARCH OF AREA AT COORDINATES AND WITHIN
15-NM RADIUS ON CLOUD-FREE, EXCELLENT
QUALITY PHOTOGRAPHY REVEALS NO MISSILE-RELATED
ACTIVITY.

25X1D

25X1A

[REDACTED] HAMMAGUIR MISSILE TEST CENTER AG 3050N 00305W

25X1D

THE ENTIRE MISSILE TEST CENTER WAS COVERED BY
GOOD QUALITY CLEAR PHOTOGRAPHY. NO MAJOR CHANGE
IS APPARENT IN ANY OF THE FACILITIES SINCE
[REDACTED] WITHIN THE BASE SUPPORT
AREA, 3 BUILDINGS PREVIOUSLY REPORTED UNDER
CONSTRUCTION ARE NOW COMPLETE WITH 3 CONCRETE
APRONS ALONGSIDE, AND ANOTHER BUILDING HAS BEEN
ADDED. NO AIRCRAFT ARE DISCERNIBLE AT HAMMAGUIR
AIRFIELD. LAUNCH AREAS A AND B APPEAR INACTIVE.
NO APPARENT CHANGE IN THE THIRD POSSIBLE LAUNCH
AREA. A PORTION OF THE ROAD LEADING SW TO THE
TABELBALA AREA AIRFIELD HAS BEEN IMPROVED AND

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NOW HAS AN MACADAM SURFACE.

THE TABELBALA AREA AIRFIELD LOCATED 88 NM SW OF HAMMAGUIR MISSILE TEST CENTER BASE SUPPORT APPEARS COMPLETE. IT CONSISTS OF A 6,655-BY 85-FOOT E/W MACADAM RUNWAY WITH GRADED-EARTH OVERRUNS ON EACH END AND A MACADAM PARKING APRON ALONG ITS NORTH SIDE. NO AIRCRAFT OR ACTIVITY IS NOTED AT THE AIRFIELD.

25X1D PHOTO REFERENCES FOR SIGNIFICANT ITEMS --
25X1D TABELBALA AIRFIELD -- [REDACTED]
25X1D HAMMAGUIR AIRFIELD -- [REDACTED]
LAUNCH AREA A -- [REDACTED]
LAUNCH AREA B -- [REDACTED]

25X1D ATTACHMENTS 2 & 3)
25X1A [REDACTED]

[REDACTED] COLOMB-BECHAR MISSILE TEST CENTER AG 3139N 00216W

THE ENTIRE COLOMB-BECHAR MISSILE TEST CENTER IS COVERED BY GOOD QUALITY CLEAR PHOTOGRAPHY. LOCATED APPROXIMATELY 2 NM NW OF THE TOWN OF COLOMB-BECHAR, IT CONTAINS A BASE SUPPORT AREA WITH A MAIN HEADQUARTERS BUILDING, 8 PERSONNEL BUILDINGS, 36 SMALL STORAGE-TYPE BUILDINGS AND APPROXIMATELY 50 UNIDENTIFIED BUILDINGS. IN SEVERAL PORTIONS OF THE BASE SUPPORT AREA THERE ARE ROWS OF VEHICLES OR EQUIPMENT. LEGER AIRFIELD ADJOINS THE NORTHERN EDGE OF THE BASE SUPPORT AREA. AT LEAST 8 AIRCRAFT (ONE MEDIUM STRAIGHT-WING AND 7 LIGHT STRAIGHT-WING) ARE DISCERNIBLE ON A PARKING APRON ADJACENT TO THE HANGARS.

AN INTERFEROMETER SIMILIAR TO THE ONE AT THE HAMMAGUIR MISSILE TEST CENTER HAVING A MACADAM BASE WITH A 4-POINTED-STAR CONFIGURATION IS LOCATED 1.5 NM WSW OF THE BASE SUPPORT AREA. THREE SECURED AREAS, EACH WITH AN INTERNAL ROAD PATTERN AND WITH SEVERAL UNIDENTIFIED BUILDINGS OR STRUCTURES, ARE LOCATED 1.5 NM SW, 11 NM NW, AND 5 NM EAST OF THE BASE SUPPORT AREA.

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PHOTO REFERENCES FOR SIGNIFICANT ITEMS --
LEGER AIRFIELD
25X1D BASE SUPPORT --
INTERFEROMETER

(ATTACHMENT 4)

25X1D

25X1A

KRASNOYARSK EXPLOSIVES PLANT ZLOBINO UR 5602N 09303E

TWO POSSIBLE RAIL SPURS ARE UNDER CONSTRUCTION IN THE NORTHERN PART OF THE PLANT AREA. ONE SPUR WILL APPARENTLY SERVE THE SET OF 3 OFFSET BUILDINGS (POSSIBLE TEMPERATURE CONDITIONING FACILITY) AND THE OTHER THE ROW OF 7 APPARENT STORAGE BUILDINGS IMMEDIATELY SOUTH OF THE STAGGERED BUILDINGS.

25X1D

OTHERWISE, NO SIGNIFICANT CHANGE FROM

25X1D

25X1A

KRASNOYARSK ARMS PLANT VOROSHILOV 4 UR 5600N 09259E

TWO PREVIOUSLY REPORTED ASSEMBLY-TYPE BUILDINGS IN THE NW CORNER OF THE PLANT AREA WERE APPARENTLY UNDER CONSTRUCTION AT THAT TIME AND CAN NOW BE IDENTIFIED AS A COMPLETED SINGLE BUILDING WITH A HIGH BAY SECTION COMPRISING ABOUT HALF OF THE TOTAL FLOOR SPACE AREA. ESTIMATED DIMENSIONS ARE 630 BY 450 FEET. THERE HAS BEEN NO OTHER SIGNIFICANT CHANGE IN THE PLANT SINCE

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25X1D

(ATTACHMENT 5)

25X1D

25X1A

KRASNOYARSK ROCKET ENGINE TEST FACILITY UR 5605N 09327E

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25X1D

25X1A

KOKCHETAV SUSPECT SSM AREA UR 5317N 06930E

ONLY A VERY SMALL PORTION OF THE NE QUARTER OF
SEARCH AREA OBSERVED. THE REMAINING PORTION IS
CLOUD-COVERED OR NOT COVERED BY PHOTOGRAPHY.
NO SSM ACTIVITY OBSERVED IN CLOUD-FREE PORTIONS
OF THE SEARCH AREA.

25X1D

25X1A

KUZNETSK SUSPECT SSM AREA UR 5307N 04636E

IDENTIFICATION ONLY.

25X1D

25X1A

SRETENSK SUSPECT SSM AREA UR 5213N 11743E

NO SSM-RELATED ACTIVITY OBSERVED WITHIN 50-NM
RADIUS OF COORDINATES.

25X1D

25X1A

RUMBAI AREA SAM SEARCH ID 0040N 10013E

NO SAM SITE OBSERVED AT COORDINATES OR IN CLOUD-FREE
AREAS WITHIN 50-NM RADIUS.

25X1D

BONUS

KRASNOYARSK PROB SOLID PROPELL TEST FAC UR 5603N 09303E

THREE PROBABLE RAIL SPURS SERVING THE TEST CELL,
H-SHAPED BUILDING AND ONE OTHER BUILDING ARE
NEWLY IDENTIFIED ON THIS MISSION AS ARE TWO
PROBABLE TANKS OUTSIDE OF THE SECURITY WALL AT
THE NW CORNER OF THE TEST FACILITY. A PROBABLE
NEW RAIL SPUR IS BEING BUILT TO THE SET OF 3 OFFSET
BUILDINGS (POSSIBLE TEMPERATURE CONDITIONING

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FACILITY) SOUTH OF THE TEST FACILITY. THE RAIL
NET DEVELOPING WITHIN THE TEST FACILITY AND IN
THE ADJACENT PRODUCTION AREA IS NEARLY IDENTICAL
TO THAT FOUND AT THE STERLITIMAK PROBABLE SOLID
PROPELLANT TEST FACILITY AND ADJACENT EXPLOSIVES
PLANT 850.

(ATTACHMENT 6)

25X1D



BONUS

LAN-CHOU SAM SITE CH 3547N 10344E

COMPLETED SA-2 SAM SITE LOCATED 17 NM SSW OF LAN-CHOU
AT 035-47N 103-44E.

SITE CONTAINS 4 OCCUPIED REVETTED LAUNCH POSITIONS AND
AN OCCUPIED POSSIBLY REVETTED CENTRAL GUIDANCE AREA.

25X1D

SITE WAS NOT PRESENT ON



(ATTACHMENT 7)

25X1D



**Air
Facilities**

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25X1A

AIR FACILITIES

[REDACTED] BORZYA AIRFIELD NORTHWEST UR 5024N 11623E

AIRCRAFT -- 7 PROBABLE BADGER AND ONE POSSIBLE BADGER
OBSERVED THROUGH HAZE.

25X1D

25X1A

[REDACTED] GOMEL/PRIBYTKI AIRFIELD UR 5218N 03110E

AIRCRAFT -- 1 PROBABLE BADGER ON MAIN TAXIWAY,
6 PROBABLE BADGER ON HARDSTANDS AT WNW END OF
RUNWAY, AND AT LEAST 40 UNIDENTIFIED AIRCRAFT
ON PARKING APRONS. HAZE AND OBLIQUITY PRECLUDE
MORE DETAILED INTERPRETATION.

25X1D

25X1A

[REDACTED] BOBRUYSK AIRFIELD UR 5306N 02912E

IDENTIFICATION ONLY.

AIRCRAFT -- AT LEAST 4 PROBABLE BADGER OBSERVED
THROUGH HAZE.

25X1D

25X1A

[REDACTED] KAZAN AIRFRAME PLANT GORBUNOV 22 UR 5552N 04907E

NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED]

25X1D

25X1D

AIRCRAFT -- 11 BLINDER, 6 PROBABLE BLINDER,
2 POSSIBLE BLINDER, 3 BADGER, 4 POSSIBLE BADGER,
AND 4 LIGHT STRAIGHT-WING.

LOW SUN ANGLE AND SHADOW PRECLUDES FURTHER
INTERPRETATION.

25X1D

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Control System Only

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NPIC/R-5085/64

25X1A

WU-KUNG AIRCRAFT ENGINE PLANT CH 3417N 10815E

CONSTRUCTION ON 2 LARGE BUILDINGS AND TAXIWAY
CONTINUES. NO INDICATION OF SPECIFIC TYPE OF
PRODUCTION OUTPUT. PRODUCTION STATUS OF PLANT
CAN NOT BE DETERMINED.

25X1D

25X1A

WU-KUNG AIRFIELD CH 3417N 10815E

25X1D AIRCRAFT ON -- 12 BULL, 1 BADGER, 1 MEDIUM
STRAIGHT-WING, 2 LIGHT STRAIGHT-WING, AT LEAST
16 SMALL POSSIBLE AIRCRAFT.

25X1D AIRCRAFT ON -- 12 PROBABLE BULL AND 1
BADGER.

25X1D

25X2

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**Naval
Activity/
Ports**

Handle Via
TALENT-KEYHOLE
Control System Only

TOP SECRET CHESS RUFF

MISSION 1014-2. 24-27 NOVEMBER 1964

TCS-10617/64
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25X1A

NAVAL ACTIVITY/PORTS

[REDACTED] SHAN-TOU NAVAL BASE CH 2321N 11640E

ENTIRE SHAN-TOU COMPLEX COVERED BY GOOD QUALITY PHOTOGRAPHY. NO APPARENT CHANGE IN FACILITIES SINCE

25X1D

25X9

VESSELS -- 2 MERCHANT SHIPS AND NUMEROUS SMALL CRAFT.

25X1D

[REDACTED] HUANG-PU NAVAL BASE CH 2305N 11325E

25X1A NAVAL BASE AND 5-NM RADIUS SEARCH AREA OBSERVED ON CLEAR EXCELLENT QUALITY PHOTOGRAPHY.

SHIPYARD FACILITIES INCLUDE GRAVING DOCK WITH POSSIBLE NEW CONSTRUCTION INSIDE, 1 MARINE RAILWAY WITH SEVERAL OCCUPIED BUILDING OR REPAIR WAYS, EXTENSIVE WHARVES AND NUMEROUS BUILDINGS. NEW AREA AT NW END OF ISLAND INCLUDES 2 LARGE ASSEMBLY-TYPE BUILDINGS. A CAUSEWAY JOINS THE ISLAND TO THE MAINLAND.

25X9

VESSELS -- 6 MERCHANT VESSELS AND NUMEROUS SMALL CRAFT AT WHARVES OR AT ANCHOR.

25X1D

[REDACTED] SHANG-CHUAN SHAN NAVAL FACILITY CH 2145N 11247E

25X1A TWO PIERS (APPROXIMATELY 250 FT LONG) AND AT LEAST 12 SCATTERED BUILDINGS OBSERVED.

25X9

25X9

ISLAND IS COMPLETELY COVERED BY GOOD QUALITY, CLOUD-FREE PHOTOGRAPHY.

VESSELS -- NONE OBSERVED.

Handle Via
TALENT-KEYHOLE
Control System Only

TOP SECRET CHESS RUFF

MISSION 1014-2. 24-27 NOVEMBER 1964

TCS-10617/64
NPIC/R-5085/64

25X1D [REDACTED]

25X1A [REDACTED]

[REDACTED] BUKHTA SARANNAYA SUSP SUBMARINE DISP BASE UR 5245N 15832E

ENTIRE MORZHOVAYA BAY COVERED BY CLOUD-FREE
PHOTOGRAPHY. BECHEVINSKAYA BAY COVERED BY CLOUDS
AND CLOUD SHADOW.

VESSELS -- NONE OBSERVED.

25X1D [REDACTED]

25X1A [REDACTED]

[REDACTED] NIKOLAYEV SHPYD NORTHERN 61 KOMMUNA 445 UR 4659N 03201E

25X1D NO APPARENT CHANGE IN FACILITIES IN CLOUD-FREE AREAS
SINCE [REDACTED]

NO SHORE-BASED SUBMARINE FACILITIES OBSERVED.

VESSELS -- SEVERAL VESSELS ALONG FITTING OUT QUAYS.
HEAVY CLOUDS AND HAZE PRECLUDE IDENTIFICATION.

25X1D [REDACTED]

25X1A [REDACTED]

[REDACTED] NIKOLAYEV SHIPYARD NOSENKO 444 UR 4657N 03159E

CONSTRUCTION CONTINUES ON 645-FT UNIDENTIFIED VESSEL
ON BUILDING WAY. ADDITIONAL UNIDENTIFIED
SUPERSTRUCTURE IS VISIBLE AMIDSHIPS AND ON AFTER
PORTION OF DECK. ONE ADDITIONAL UNIDENTIFIED VESSEL
OBSERVED ON BUILDING WAY. TWO LARGE UNIDENTIFIED
VESSELS IN FITTING OUT BASIN AND SEVERAL SMALLER
UNIDENTIFIED VESSELS ALONGSIDE QUAYS.

25X1D NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED]

25X1D [REDACTED]

NO SHORE-BASED SUBMARINE FACILITIES OBSERVED.

HAZE AND SCATTERED CLOUDS PRECLUDE DETAILED
INTERPRETATION OF VESSELS.

TOP SECRET CHESS RUFF

Handle Via
TALENT-KEYHOLE
Control System Only

MISSION 1014-2. 24-27 NOVEMBER 1964

TCS-10617/64
NPIC/R-5085/64

25X1D

BONUS HUANG-PU AREA BOATYARD UNDER CONSTRUCTION CH 2306N 11319E
THREE NM WEST OF HUANG-PU ON SOUTH BANK OF
CHU CHIANG (PEARL RIVER).
MARINE RAILWAY AND BUILDING WAYS UNDER CONSTRUCTION.
SIX SHOP-TYPE BUILDINGS ARE WITHIN SECURED AREA
ON LAND FILL.

25X1D

BONUS HUANG-PU AREA SHIPYARD UNDER CONSTRUCTION CH 2305N 11328E
FIVE NM E OF HUANG-PU ON NORTH BANK OF CHU CHIANG
(PEARL RIVER).
GRAVING DOCK AT LEAST 550 FT LONG (BASED ON
PARTIALLY COMPLETED CONCRETE DOCK) UNDER
CONSTRUCTION, POSSIBLE MARINE RAILWAYS AND
NUMEROUS BUILDINGS.

25X1D

**Electronics/
Communications**

Handle Via
TALENT-KEYHOLE
Control System Only

TOP SECRET CHESS RUFF

MISSION 1014-2. 24-27 NOVEMBER 1964

TCS-10617/64
NPIC/R-5085/64

25X1A

ELECTRONICS/COMMUNICATIONS

EMBA MISSILE TRACKING FACILITY UR 4836N 05809E

25X1D NO APPARENT CHANGE IN FACILITIES SINCE

25X1D

TOP SECRET CHESS RUFF

Handle Via
TALENT-KEYHOLE
Control System Only

**Military
Activity**

Handle Via
TALENT-KEYHOLE
Control System Only

TOP SECRET CHESS RUFF

MISSION 1014-2 24-27 NOVEMBER 1964

TCS-10617/64
NPIC/R-5085/64

25X1A

MILITARY ACTIVITY

[REDACTED] SOKSARI BARRACKS AREA KN 4040N 12717E

AREA IS COVERED BY CLEAR, POOR QUALITY PHOTOGRAPHY.

NO BARRACKS AREA OBSERVED.

25X1D

25X1A

[REDACTED] LAO-PO SHAN SPECIAL AREA CH 4556N 12045E

AREA IS APPROXIMATELY THREE-FOURTHS CLOUD COVERED.
NO MILITARY ACTIVITY OBSERVED IN CLOUD-FREE AREAS.

25X1D

**Other
Activity**

Handle Via
TALENT-KEYHOLE
Control System Only


TOP SECRET CHESS RUFF

MISSION 1014-2. 24-27 NOVEMBER 1964

TCS-10617/64
NPIC/R-5085/64

25X1A

OTHER ACTIVITY

 CHAADAYEVKA SENSITIVE OPERATIONS COMPLEX UR 5307N 04602E

IDENTIFICATION ONLY.

25X1D 

Index

Handle Via
TALENT-KEYHOLE
Control System Only

TOP SECRET CHESS RUFF

MISSION 1014-2. 24-27 NOVEMBER 1964

TCS-10617/64
NPIC/R-5085/64

INDEX OF COMOR TARGETS

THIS SECTION CONTAINS A COMPOSITE LIST, BY TARGET NUMBER, OF ALL COMOR TARGETS REPORTED DURING THE SCAN OF MISSION 1014-2.

INSTALLATION NAME	CTY	COORDINATES
YOSHKAR-OLA ICBM COMPLEX	UR	5634N 04803E
DROVYANAYA ICBM COMPLEX	UR	5132N 11301E
ITATKA ICBM COMPLEX	UR	5650N 08536E
SHADRINSK ICBM COMPLEX	UR	5608N 06340E
TYUMEN ICBM COMPLEX	UR	5652N 06553E
GLADKAYA ICBM COMPLEX	UR	5605N 09213E
UZHUR ICBM COMPLEX	UR	5517N 08949E
OLOVYANNAYA ICBM COMPLEX	UR	5048N 11550E
KOVYLKINO SUSPECT SSM AREA	UR	5402N 04356E
KARA-BABAU IRBM LAUNCH SITE 2	UR	4431N 07758E
IECAVA MRBM LAUNCH SITE 3	UR	5633N 02420E
POSTAVY MRBM LAUNCH SITE 2	UR	5506N 02700E
SARY-SHAGAN ANTIMISSILE TEST CENTER	UR	4602N 07334E
EMBA MISSILE-ASSOCIATED INSTALLATION	UR	4835N 05804E
MENOUARAR MISSILE TEST RANGE	AG	3110N 00216W
HAMMAGUIR MISSILE TEST CENTER	AG	3050N 00305W
COLOMB-BECHAR MISSILE TEST CENTER	AG	3139N 00216W
KRASNOYARSK ARMS PLANT VOROSHILOV 4	UR	5600N 09259E
KRASNOYARSK EXPLOSIVES PLANT ZLOBINO	UR	5602N 09303E
KRASNOYARSK ROCKET ENGINE TEST FACILITY	UR	5605N 09327E
KOKCHETAV SUSPECT SSM AREA	UR	5317N 06930E
KUZNETSK SUSPECT SSM AREA	UR	5307N 04636E
SRETENSK SUSPECT SSM AREA	UR	5213N 11743E
RUMBAI AREA SAM SEARCH	ID	0040N 10013E
BORZYA AIRFIELD NORTHWEST	UR	5024N 11623E
GOMEL/PRIBYTKI AIRFIELD	UR	5218N 03110E
BOBRUYSK AIRFIELD	UR	5306N 02912E
KAZAN AIRFRAME PLANT GORBUNOV 22	UR	5552N 04907E
WU-KUNG AIRCRAFT ENGINE PLANT	CH	3417N 10815E
WU-KUNG AIRFIELD	CH	3417N 10815E

25X2

25X1A

Handle Via
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TOP SECRET CHESS RUFF

Handle Via
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MISSION 1014-2. 24-27 NOVEMBER 1964

TCS-10617/64
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25X2

SHAN-TOU NAVAL BASE	CH 2321N 11640E
HUANG-PU NAVAL BASE	CH 2305N 11325E
SHANG-CHUAN SHAN NAVAL FACILITY	CH 2145N 11247E
BUKHTA SARANNAYA SUSP SUBMARINE DISP BASE	UR 5245N 15832E
NIKOLAYEV SHPYD NORTHERN 61 KOMMUNA 445	UR 4659N 03201E
NIKOLAYEV SHIPYARD NOSENKO 444	UR 4657N 03159E
EMBA MISSILE TRACKING FACILITY	UR 4836N 05809E
SOKSARI BARRACKS AREA	KN 4040N 12717E
LAO-PO SHAN SPECIAL AREA	CH 4556N 12045E
CHAADAYEVKA SENSITIVE OPERATIONS COMPLEX	UR 5307N 04602E

25X1A

Attachments

Handle Via
TALENT-KEYHOLE
Control System Only

TOP SECRET CHESS RUFF

MISSION 1014-2. 24-27 NOVEMBER 1964

TCS-10617/64
NPIC/R-5085/64
ATTACHMENT 1



LAUNCH AREA B, UZHUR ICBM COMPLEX, USSR

NPIC J-5963 (12/64)

TOP SECRET CHESS RUFF

Handle Via
TALENT-KEYHOLE
Control System Only

Handle Via
TALENT KEYHOLE
Control System Only

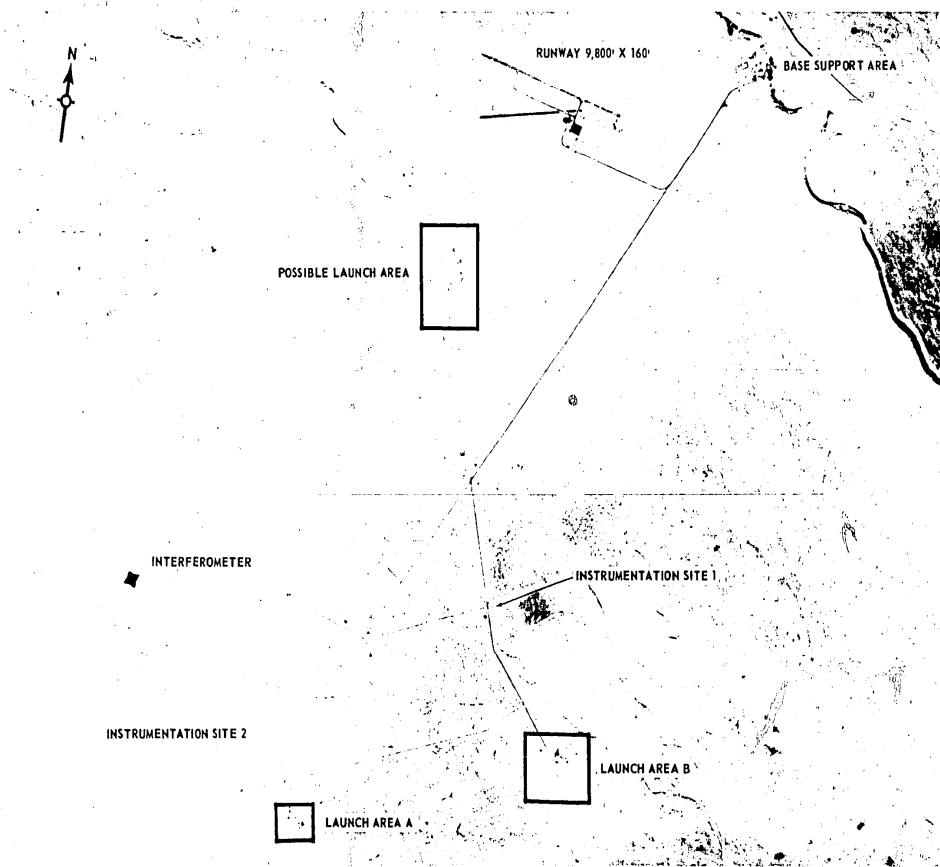
TOP SECRET CHESS RUFF
MISSION 1014.2. 24-27 NOVEMBER 1964

TCS-10617/64
NPIC/R-5085/64
ATTACHMENT 2

TOP SECRET CHESS RUFF

Handle Via
TALENT KEYHOLE
Control System Only

NPIC J-5984 (112/64)

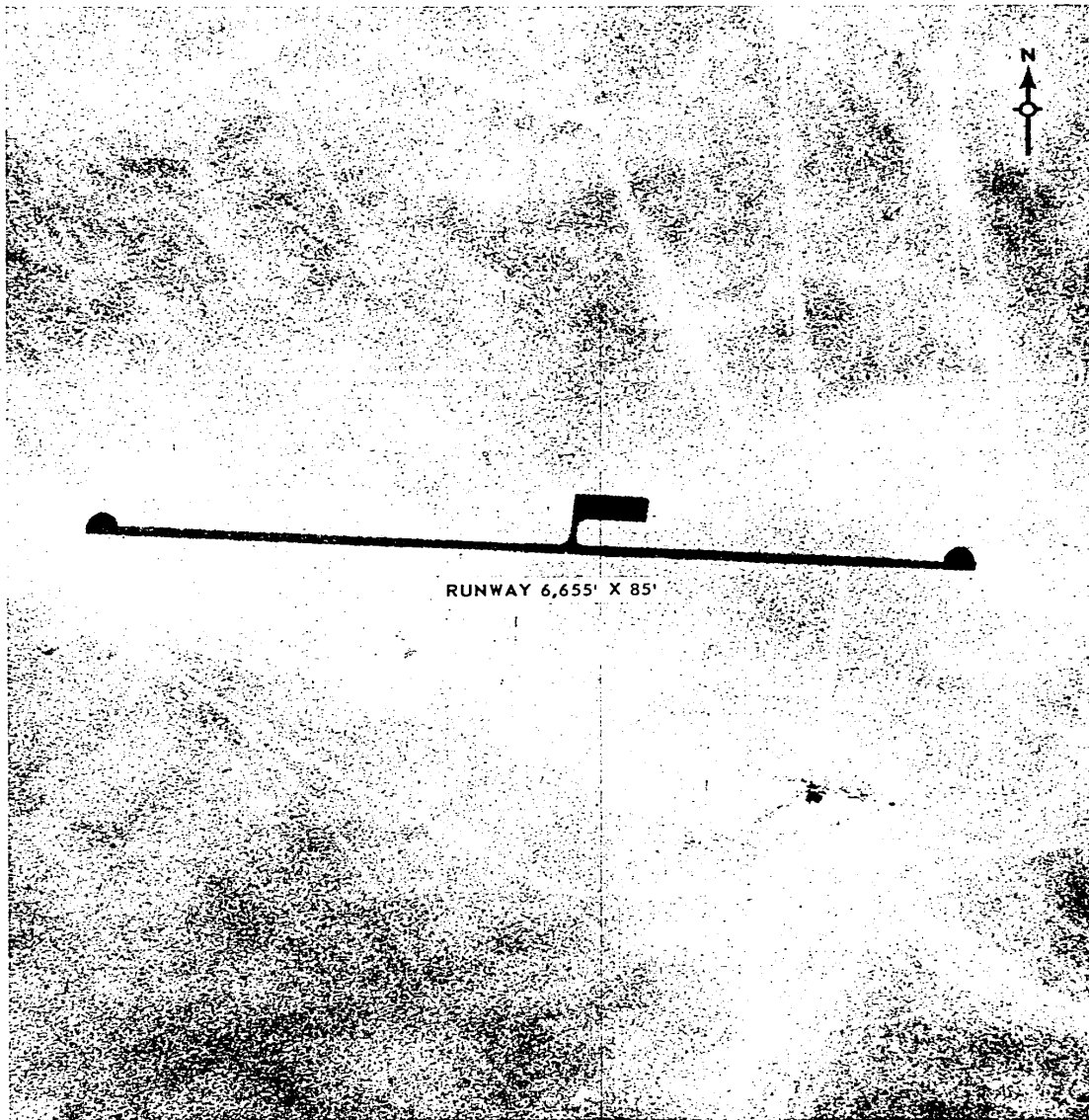


TOP SECRET CHESS RUFF

Handle Via
TALENT-KEYHOLE
Control System Only

MISSION 1014-2. 24-27 NOVEMBER 1964

TCS-10617/64
NPIC/R-5085/64
ATTACHMENT 3



TABELBALA AREA AIRFIELD, ALGERIA

NPIC J-5965 (12/64)

TOP SECRET CHESS RUFF

Handle Via
TALENT-KEYHOLE
Control System Only

Handle Via
TALENT-KEYHOLE
Control System Only

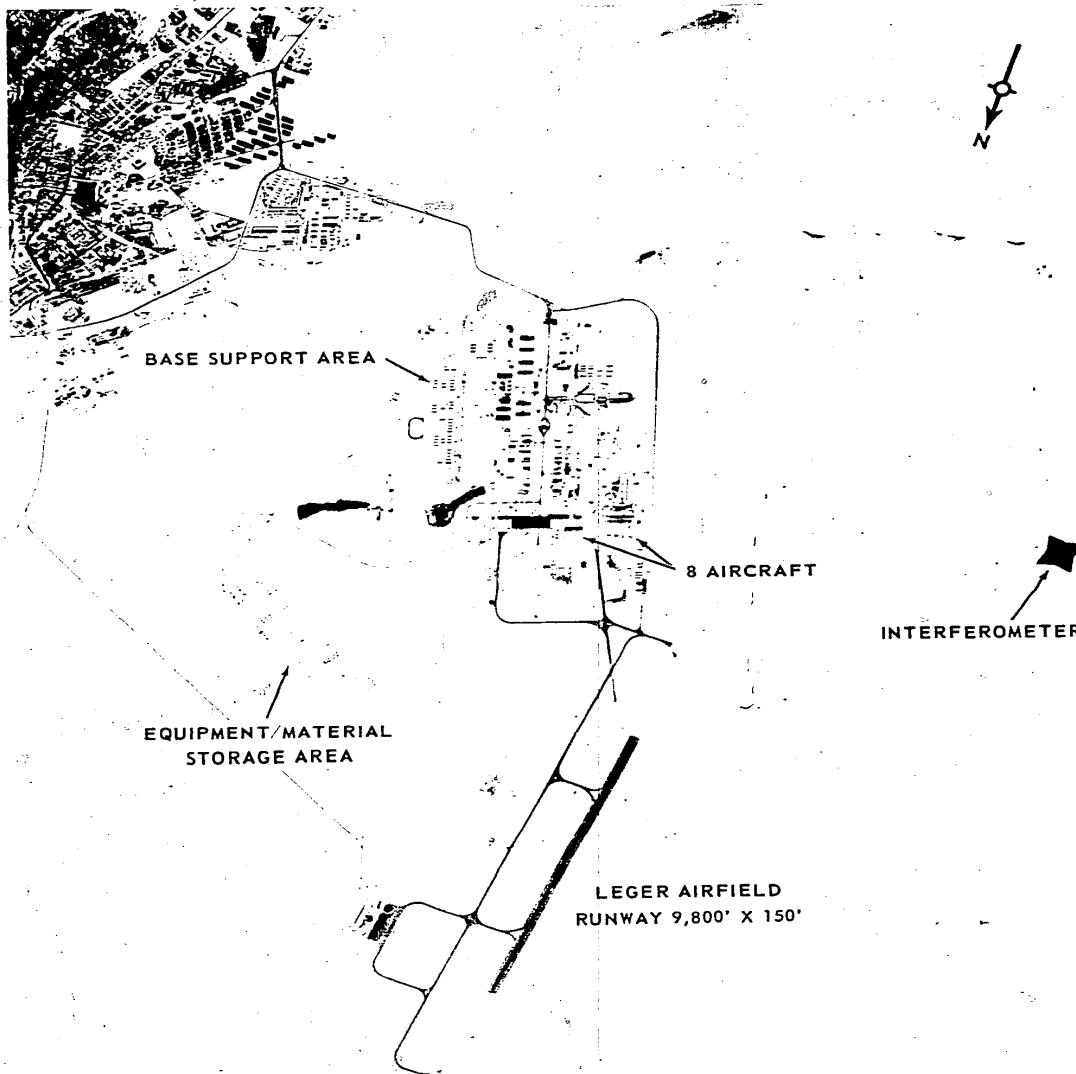
TOP SECRET CHESS RUFF

MISSION 1014-2. 24-27 NOVEMBER 1964

TCS-10617/64

NPIC/R-5085/64

ATTACHMENT 4



COLOMB-BECHAR MISSILE TEST CENTER, ALGERIA

NPIC J-5966 (12/64)

Handle Via
TALENT-KEYHOLE
Control System Only

TOP SECRET CHESS RUFF

Handle Via
TALENT:KEYHOLE
Control System Only

TOP SECRET CHESS RUFF
MISSION 1014.2, 24-27 NOVEMBER 1964

TCS-10617/64
NPIC/R-5085/64
ATTACHMENT 5



NPIC J-5087 (12/64)

ARMS PLANT VOROSHILOV 4, KRASNOYARSK, USSR

TOP SECRET CHESS RUFF

Handle Via
TALENT:KEYHOLE
Control System Only

Handle Via
TALENT-KEYHOLE
Control System Only

TOP SECRET CHESS RUFF

MISSION 1014-2. 24-27 NOVEMBER 1964

TCS-10617/64
NPIC/R-5085/64
ATTACHMENT 6



TOP SECRET CHESS RUFF

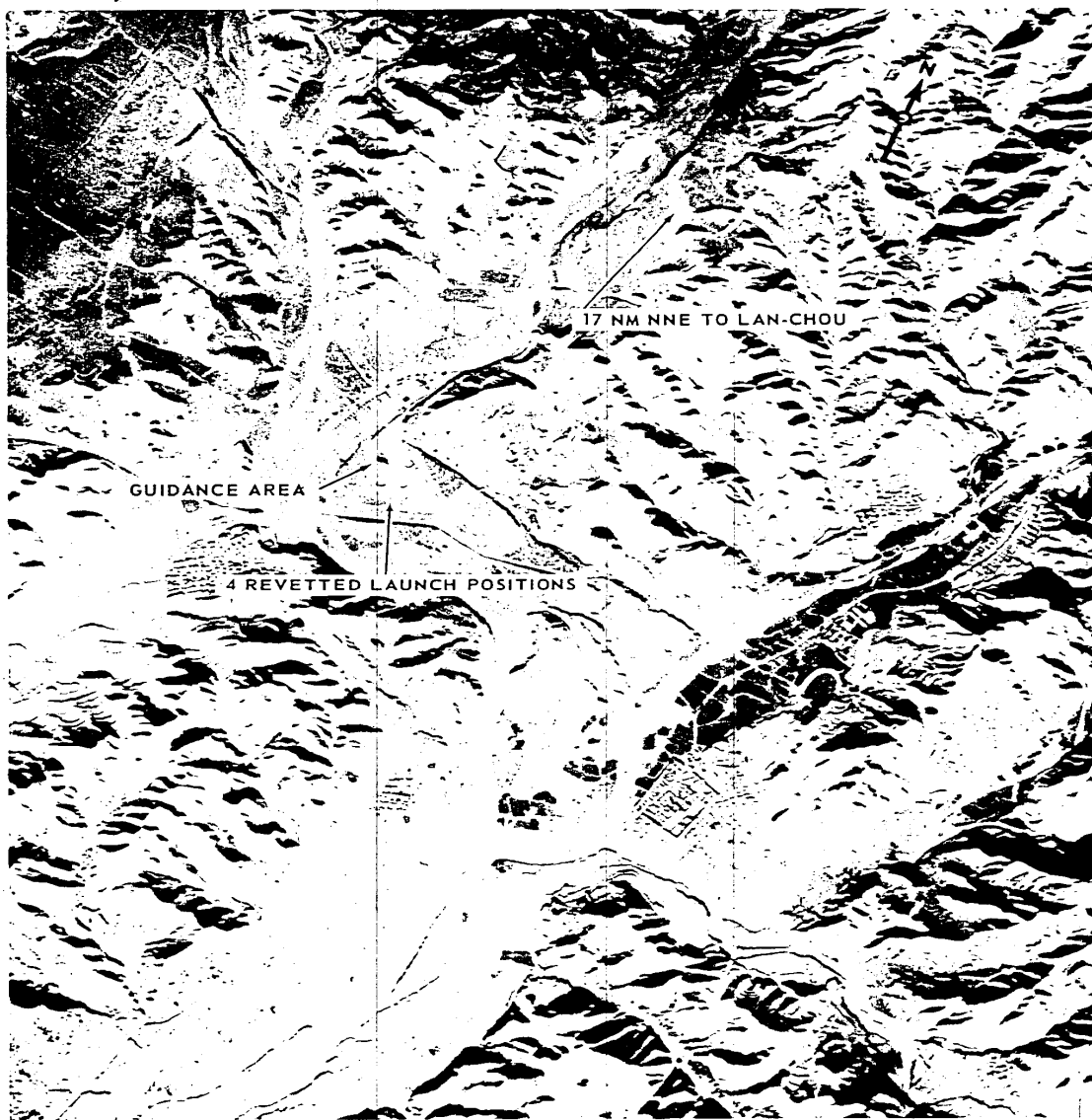
Handle Via
TALENT-KEYHOLE
Control System Only

TOP SECRET CHESS RUFF

Handle Via
TALENT-KEYHOLE
Control System Only

MISSION 1014-2. 24-27 NOVEMBER 1964

TCS-10617/64
NPIC/R-5085/64
ATTACHMENT 7



SAM SITE, LAN-CHOU, CHINA

NPIC J-5968 (12/64)

TOP SECRET CHESS RUFF

Handle Via
TALENT-KEYHOLE
Control System Only

25X2

Next 3 Page(s) In Document Exempt

TOP SECRET

TOP SECRET